



# Bats COOL or NOT?

## You Decide

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# Bats of Montana



**Pallid Bat**  
(*Antrozous pallidus*)



**Townsend's Big-eared Bat**  
(*Corynorhinus townsendii*)



**Big Brown Bat**  
(*Eptesicus fuscus*)



**Spotted Bat**  
(*Euderma maculatum*)



**Silver-haired Bat**  
(*Lasionycteris noctivagans*)



**Eastern Red Bat**  
(*Lasiurus borealis*)



**Hoary Bat**  
(*Lasiurus cinereus*)



**California Myotis**  
(*Myotis californicus*)



**Western Small-footed Myotis**  
(*Myotis ciliolabrum*)



**Long-eared Myotis**  
(*Myotis evotis*)



**Little Brown Myotis**  
(*Myotis lucifugus*)



**Northern Myotis**  
(*Myotis septentrionalis*)



**Fringed Myotis**  
(*Myotis thysanodes*)



**Long-legged Myotis**  
(*Myotis volans*)



**Yuma Myotis**  
(*Myotis yumanensis*)

**Discover Montana's Wildlife**  
— discover, preserve, protect —



MONTANA  
Natural Heritage  
Program

For more information on all of Montana's  
native species visit the Montana Field Guide  
<http://fieldguide.mt.gov>



Michael Curham/Minden Pictures/Bat Conservation International



Thanks to the contributing photographers, editors,  
and sponsors that made this poster possible!



Montana Fish,  
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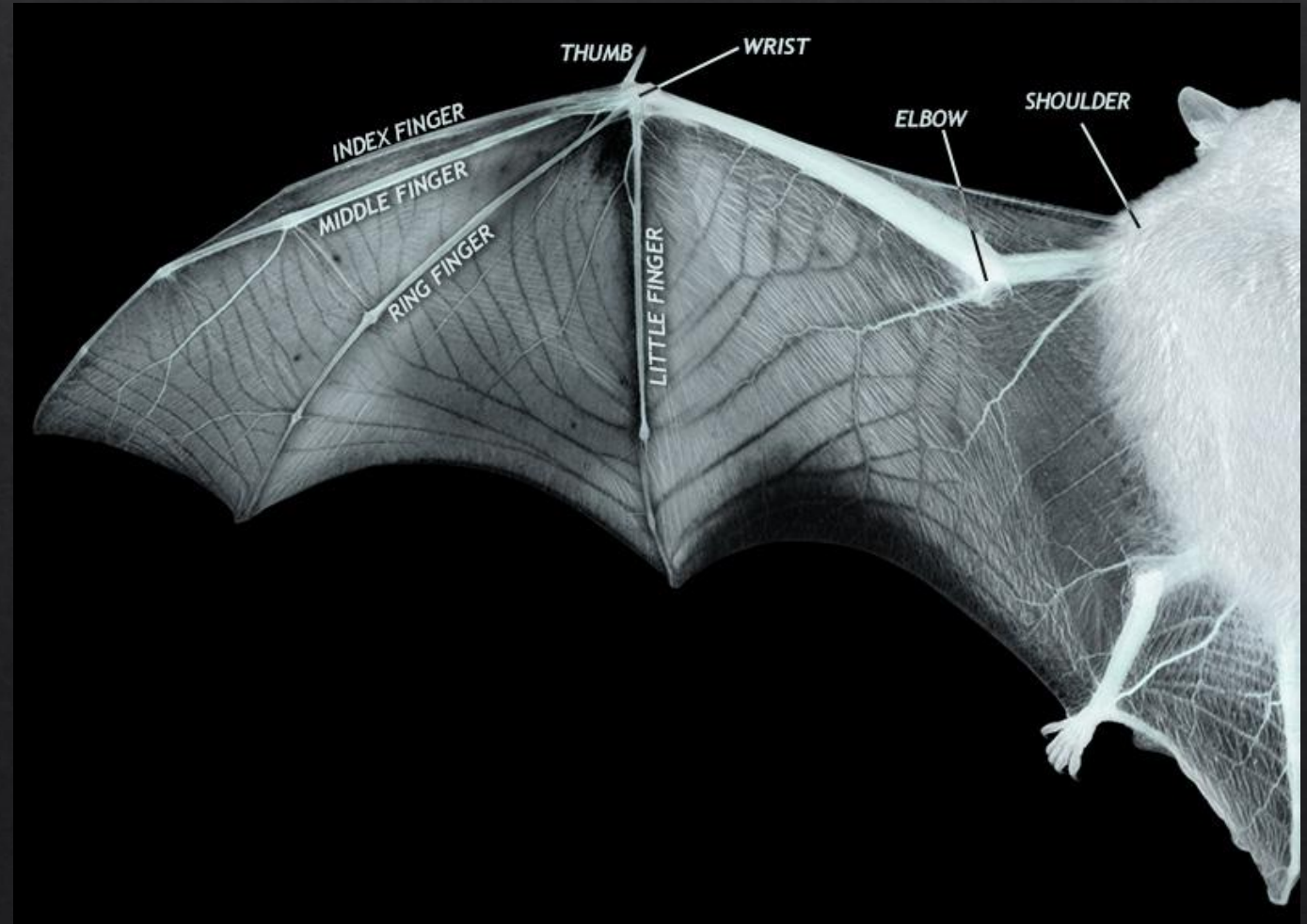


The University of  
Montana



# Flying mammals

- ◆ The forelimbs of bats form webbed wings, making them the only mammals naturally capable of true and sustained flight.



# Flying mammals

- ◆ How many pups a year?





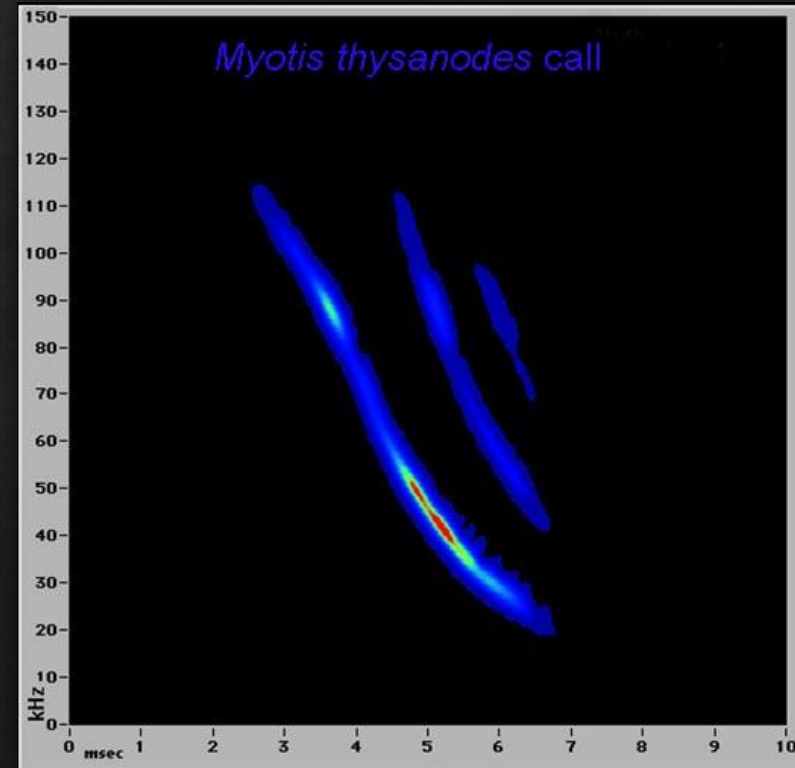
# BIG and Little

- ◆ The bumblebee bat weighs less than a penny
- ◆ The golden-crowned flying fox weighs 2.6lbs and has a wingspan of up to 5'6".

● 1.3 inch



# Bat Monitoring





# Bat monitoring



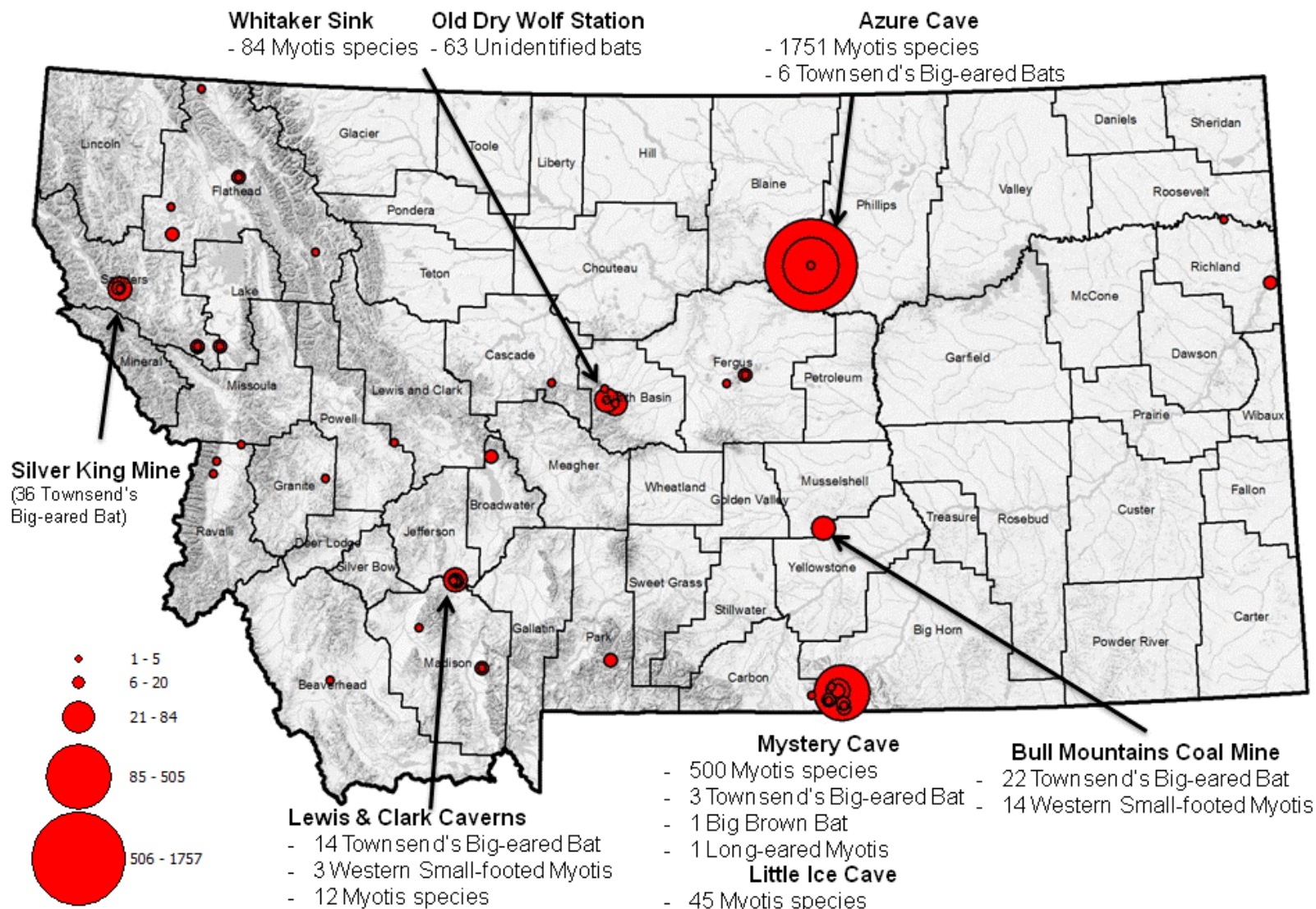


# Bat monitoring





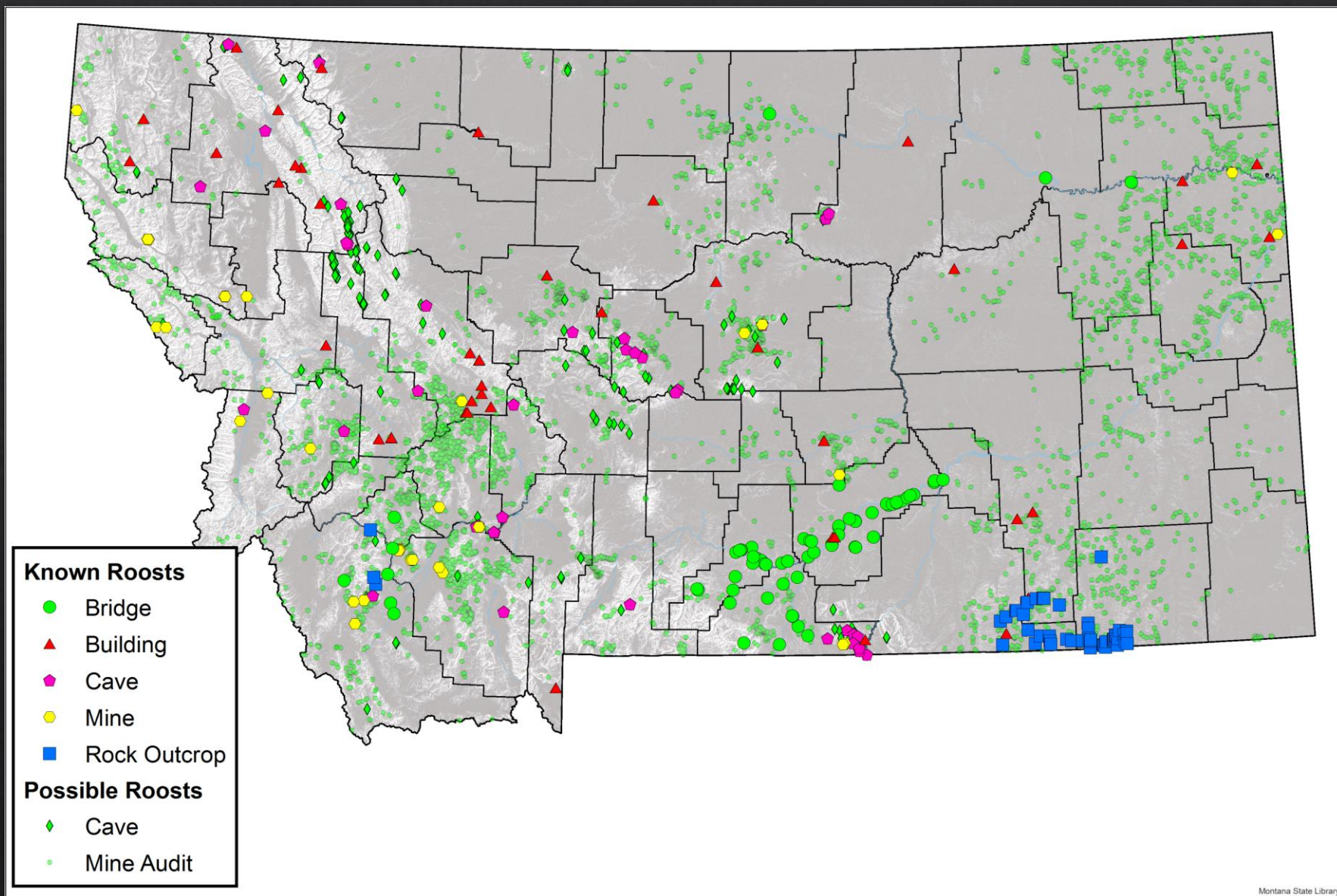
# Numbers of Bats at Montana Hibernacula



Winter habitat



# Summer habitat







Where exactly?





Where exactly?





# Do you like Corn, Trees, and Fruit?

**In Montana bats provide nearly  
\$700,000,000  
of pest removal services.**



# Do YOU like to EAT?

Some bats eat about  $\frac{1}{2}$  their body weight in insects each night!

How many double cheeseburgers would you have to eat each night to eat the same amount of food as a bat?

A double cheeseburger weights about  $\frac{1}{2}$  of a pound.

A 60 pound 3<sup>rd</sup> grader would have to eat 30 pounds of double cheeseburgers.

**60 DOUBLE CHEESEBURGERS IN 1 NIGHT!**



# Do you like Bananas?

- ◆ Bats disperse seeds, particularly in rain forests.
- ◆ Meet Humphrey the fruit bat.....



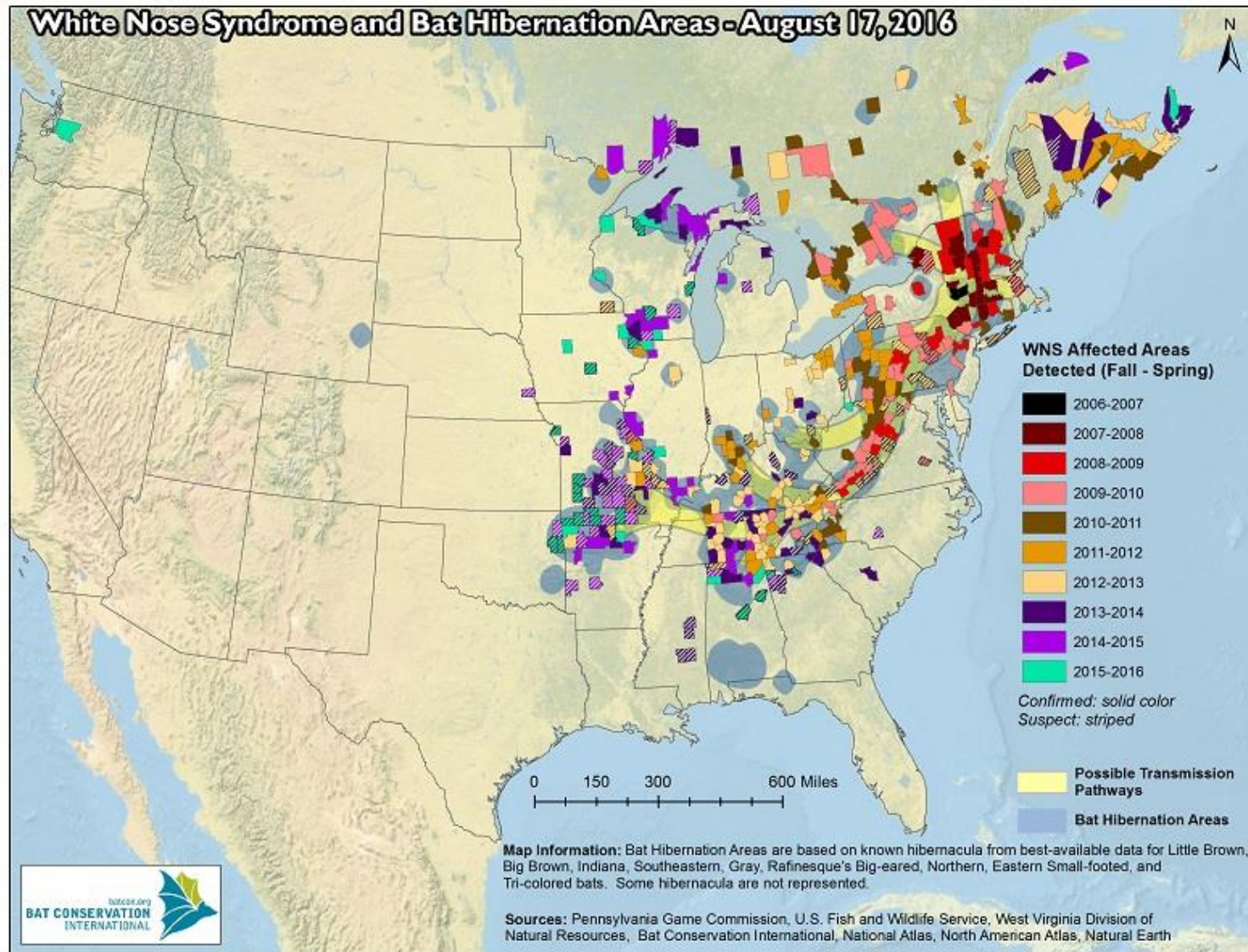
<https://www.youtube.com/watch?v=ZSUVXAsQe4I>

# Major Conservation Issues

- ◆ White-Nose Syndrome
- ◆ Collisions hazards, including wind turbines
- ◆ Lack of basic biological knowledge to inform management
- ◆ Disturbance of bats at roost sites
- ◆ Loss of natural roost habitats – trees, rock outcrops, caves
- ◆ Drowning hazards at artificial watering sites
- ◆ Loss of prey species (pesticides)



## White Nose Syndrome and Bat Hibernation Areas - August 17, 2016



White nose  
syndrome

# Fact or Fiction

- ◆ Bats are blind
- ◆ Bats get tangled in your hair
- ◆ Bats are blood suckers
- ◆ All bats are rabid

See very well but also use echolocation

Too smart and agile

No, vampire bats lap blood : anticoagulants

Very few actually

NEVER pick up a sick bat without appropriate safety gear!!

- ◆ Bats are in Trouble

Yes, bats need your help!!!

SEEK medical attention if you think you have bitten by a bat!!



# Sign a Pledge to Help Bats

## GO TO BAT FOR BATS

You don't have to have special powers or a lot of money to help bats. There are many actions, both great and small, that you can take to help conserve bats and the places where they live.

### **Which important actions do you commit to follow?**

Every action is important to protect bats and the places they live!!

### **PLEDGE CARD**

I, \_\_\_\_\_  
(sign your name above)

**pledge to take the following actions to help conserve bats and their habitats. Commit to at least three actions!**

\_\_\_ **Learn more about fascinating bats**, the benefits of bats, and the threats they face.  
Write a bat fact on a paper bat you make and turn it into Fish, Wildlife and Parks for display!

\_\_\_ **Spread the word** about the value of bats to at least one other person – have them sign a pledge card, too.



# Questions

